

```
!pip install pystan~=2.14
```

```
!pip install fbprophet
```

```
import fbprophet as fb
```

```
!pip install yfinance
```

```
import yfinance as yf
```

```
df = yf.download("BTC-USD")
df
```

🔗 [*****100%*****] 1 of 1 completed

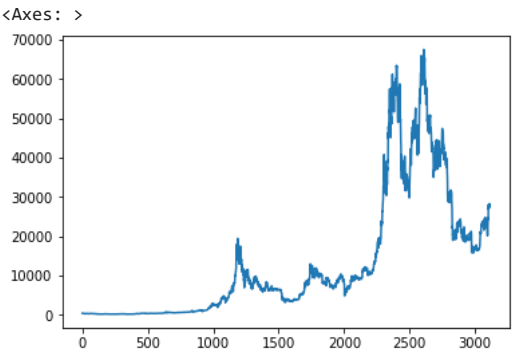
	Open	High	Low	Close	Adj Close	Volume
Date						
2014-09-17	465.864014	468.174011	452.421997	457.334015	457.334015	21056800
2014-09-18	456.859985	456.859985	413.104004	424.440002	424.440002	34483200
2014-09-19	424.102997	427.834991	384.532013	394.795990	394.795990	37919700
2014-09-20	394.673004	423.295990	389.882996	408.903992	408.903992	36863600
2014-09-21	408.084991	412.425995	393.181000	398.821014	398.821014	26580100
...
2023-03-23	27301.957031	28729.843750	27183.363281	28333.972656	28333.972656	2422043360
2023-03-24	28324.111328	28388.437500	27039.265625	27493.285156	27493.285156	2598031090

```
df.reset_index(inplace = True)
df = df[["Date", "Adj Close"]]
```

```
df.head()
```

	Date	Adj Close
0	2014-09-17	457.334015
1	2014-09-18	424.440002
2	2014-09-19	394.795990
3	2014-09-20	408.903992
4	2014-09-21	398.821014

```
df['Adj Close'].plot()
```



```
df.isnull().sum()
```

Date	0
Adj Close	0

```
dtype: int64
```

```
df.columns = ["ds", "y"]
```

```
df.head()
```

	ds	y
0	2014-09-17	457.334015
1	2014-09-18	424.440002
2	2014-09-19	394.795990
3	2014-09-20	408.903992
4	2014-09-21	398.821014

```
model = fb.Prophet()
```

```
model.fit(df)
```

```
INFO:fbprophet:Disabling daily seasonality. Run prophet with daily_seasonality=True to override this.
/usr/local/lib/python3.9/dist-packages/fbprophet/forecaster.py:891: FutureWarning: The frame.append method is deprecated and will b
components = components.append(new_comp)
<fbprophet.forecaster.Prophet at 0x7fe2da532df0>
```

```
pred = model.predict()
```

```
/usr/local/lib/python3.9/dist-packages/fbprophet/forecaster.py:891: FutureWarning: The frame.append method is deprecated and will b
components = components.append(new_comp)
/usr/local/lib/python3.9/dist-packages/fbprophet/forecaster.py:891: FutureWarning: The frame.append method is deprecated and will b
components = components.append(new_comp)
```

```
future_predict = model.make_future_dataframe(periods=20)
```

```
# create a future data frame
```

```
future = model.make_future_dataframe(periods=25)
```

```
forecast = model.predict(future)
```

```
/usr/local/lib/python3.9/dist-packages/fbprophet/forecaster.py:891: FutureWarning: The frame.append method is deprecated and will b
components = components.append(new_comp)
/usr/local/lib/python3.9/dist-packages/fbprophet/forecaster.py:891: FutureWarning: The frame.append method is deprecated and will b
components = components.append(new_comp)
```

```
from fbprophet.plot import plot_plotly
```

```
plot_plotly(model, pred)
```



✓ 1s completed at 10:06 AM

● ✕